SOLID
STATE
IONICS

Author Index

Abe, M., see N. Kumagai 70/71(1994) 451
Abraham, F., see R.N. Vannier 70/71(1994) 248
Abraham, F., see E. Pernot 70/71(1994) 259
Abraham, K.M. and M. Alamgir, Room temperature polymer electrolytes and batteries based on them 70/71(1994) 20
Ahlgren, E. and F.W. Poulsen, Thermoelectric power of YSZ 70/71(1994) 528
Alamgir, M., see K.M. Abraham 70/71(1994) 20
Altorfer, F., W. Bührer, B. Winkler, G. Coddens, R. Essmann and H. Jacobs, H^--jump diffusion in barium-nitride-hydride Ba_2NH 70/71(1994) 272
Amarilla, J.M., see C. Poinsignon 70/71(1994) 649
Anderson, H.U., see C.C. Chen 70/71(1994) 101
Aniya, M., Superionicity as a local fluctuation of the chemical bond 70/71(1994) 673
Anne, M., see E. Pernot 70/71(1994) 259
Aotani, N., see K. Iwamoto 70/71(1994) 658
Armand, M., see D. Benrabah 70/71(1994) 157
Arntz, F.O., see R.B. Goldner 70/71(1994) 613
Asano, H., see R. Kanno 70/71(1994) 253
Aschrafi-Mahabadi, S., M. Cappadonia and U. Stimming, Proton transport in solid electrolytes with clathrate structure 70/71(1994) 311
Atake, T., see H. Kawaji 70/71(1994) 518

Bacmann, M., see E. Pernot 70/71(1994) 259
Badwal, S.P.S. and S. Rajendran, Effect of micro- and nano-structures on the properties of ionic conductors 70/71(1994) 83
Bagger, C., see C. Clausen 70/71(1994) 59
Balaya, P., see V. Srirama Swaminathan 70/71(1994) 163
Balkanski, M., see S. Souto 70/71(1994) 350
Bangobango, D., see F. Krok 70/71(1994) 211
Bates, J.B., G.R. Gruzalski, N.J. Dudney, C.F. Luck and X. Yu, Rechargeable thin-film lithium batteries 70/71(1994) 619
Baud, G., see E. Caudron 70/71(1994) 629
Becker, K.D., J. Pattanayak and S. Wißmann, A high-temperature Mössbauer study of the cation distribution in $(Fe,Mn)_3O_4$ spinels 70/71(1994) 497
Beeken, R.B., W.L. Jetzer and D.R. Smith, Ionic conduction in Cd-substituted Ag_3SBr 70/71(1994) 176
Belkebir, A., see P. Berthet 70/71(1994) 476
Bell, R.G., see C.R.A. Catlow 70/71(1994) 511
Benammar, M. and W.C. Maskell, An oxygen sensor based upon a zirconia pump-gauge operated in a novel mode providing a linear output 70/71(1994) 559
Benassi, P., A. Fontana and E. Cazzanelli, Quasi-elastic light scattering in glasses 70/71(1994) 375
Benrabah, D., J.-Y. Sanchez, D. Deroo and M. Armand, Synthesis and electrochemical characterization of new bulky lithium salts 70/71(1994) 157

Berthet, P., E. Bretey, J. Berthon, F. D'Yvoire, A. Belkebir, A. Rulmont and B. Gilbert, Structure and ion transport properties of Na_2O–Ga_2O_3–P_2O_5 glasses 70/71(1994) 476
Berthon, J., see P. Berthet 70/71(1994) 476
Besse, J.P., see E. Caudron 70/71(1994) 629
Beyer, D., see Ch. Kaps 70/71(1994) 385
Beyer, D., Ch. Kaps, A. Müller, C.J. Carlile and R. Hempelmann, A combined radioactive tracer and quasielastic neutron scattering study of sodium diffusion in sodium silicate glass 70/71(1994) 461
Bilde-Sørensen, J.B., see C. Clausen 70/71(1994) 59
Blondiaux, G., see E. Caudron 70/71(1994) 629
Bogusz, W., see F. Krok 70/71(1994) 211
Bogusz, W., see J.R. Dygas 70/71(1994) 239
Boivin, J.C., see F. Desanglois 70/71(1994) 229
Bondarev, V.N. and P.V. Pikhitsa, A dendrite model of current instability in $RbAg_4I_5$ 70/71(1994) 72
Bonino, F., F. Croce and S. Panero, Electrochemical characterization of an ambient temperature rechargeable Li battery based on low molecular weight polymer electrolyte 70/71(1994) 654
Breiter, M.W., see J.R. Dygas 70/71(1994) 239
Bretey, E., see P. Berthet 70/71(1994) 476
Bührer, W., see F. Altorfer 70/71(1994) 272
Bunde, A., see D. Wilmer 70/71(1994) 323
Burmester, I., see D. Clausen 70/71(1994) 482

Cappadonia, M., see S. Aschrafi-Mahabadi 70/71(1994) 311
Carlile, C.J., see D. Beyer 70/71(1994) 461
Catlow, C.R.A. and R.G. Bell, Ions and ionic motion in microporous materials 70/71(1994) 511
Caudron, E., G. Baud, J.P. Besse, M. Jacquet and G. Blondiaux, Elaboration and ionic conductivity of Li–Al–O thin films 70/71(1994) 629
Cazzanelli, E., see P. Benassi 70/71(1994) 375
Cazzanelli, E., G. Mariotto, S. Passerini and F. Decker, Spectroscopic investigations of Li-intercalated V_2O_5 polycrystalline films 70/71(1994) 412
Chadwick, A.V., see A.J. Francklin 70/71(1994) 215
Chen, C.C., M.M. Nasrallah and H.U. Anderson, Synthesis and characterization of YSZ thin film electrolytes 70/71(1994) 101
Chen, L., see W. Zhao 70/71(1994) 144
Chen, L., see Y. Inaguma 70/71(1994) 196
Chen, L., see M. Itoh 70/71(1994) 203
Chen, L., see Y.J. Shan 70/71(1994) 429
Chen, X., see M. Zheng 70/71(1994) 595
Chiba, Y., see T. Hattori 70/71(1994) 493
Clausen, C., C. Bagger, J.B. Bilde-Sørensen and A. Horsewell, Microstructural and microchemical characterization of the interface between $La_{0.85}Sr_{0.15}MnO_3$ and Y_2O_3-stabilized ZrO_2 70/71(1994) 59
Clausen, D., I. Burmester, P. Heitjans and A. Schirmer, ^{7}Li-NMR on β-LiAl: Diffusion and electronic properties 70/71(1994) 482
Clauss, H., see K. Huang 70/71(1994) 563
Coddens, G., see F. Altorfer 70/71(1994) 272
Colomban, P., see S. Servagent 70/71(1994) 167

Colomban, Ph., see T. Scanu 70/71(1994) 109
Copcutt, R.C. and W.C. Maskell, A zirconia amperometric pump–gauge sensor operated in gases containing SO_2 or NO: Leakage and electrode overvoltage studies 70/71(1994) 578
Couves, J.W., see A.J. Francklin 70/71(1994) 215
Croce, F., see F. Bonino 70/71(1994) 654
Cui, W., see W. Zhao 70/71(1994) 144

Dean, F.W.H. and D.J. Fray, A low temperature hydrogen in steel potentiometric sensor 70/71(1994) 584
Decker, F., see E. Cazzanelli 70/71(1994) 412
Dencher, N.A., see R.E. Lechner 70/71(1994) 296
Deroo, D., see D. Benrabah 70/71(1994) 157
Desanglois, F., C. Follet-Houttemane and J.C. Boivin, Phases stability and electrical properties in the Bi_2O_3–CdO–PbF_2 system 70/71(1994) 229
Despotuli, A.L., A.A. Shestakov and N.V. Lichkova, An external electric field effect in electron-beam lithography of $RbAg_4I_5$ solid electrolyte film 70/71(1994) 130
Dharmasena, G., see R. Frech 70/71(1994) 191
Dickson, K., see R.B. Goldner 70/71(1994) 613
Dieterich, W., see D. Knödler 70/71(1994) 356
Dippel, Th., see R.E. Lechner 70/71(1994) 296
Dokiya, M., see T. Kawada 70/71(1994) 65
Duclot, M., see J.L. Souquet 70/71(1994) 337
Dudney, N.J., see J.B. Bates 70/71(1994) 619
Dunn, B., G.C. Farrington and B. Katz, Sol–gel approaches for solid electrolytes and electrode materials 70/71(1994) 3
Dygas, J.R., see F. Krok 70/71(1994) 211
Dygas, J.R., F. Krok, W. Bogusz, P. Kurek, K. Reiselhuber and M.W. Breiter, Impedance study of BICUVOX ceramics 70/71(1994) 239
D'Yvoire, F., see P. Berthet 70/71(1994) 476

Ehara, S., see J. Mizusaki 70/71(1994) 52
Einaga, H., see S. Ikeda 70/71(1994) 153
Einaga, H., see S. Ikeda 70/71(1994) 569
Elliott, S.R., Frequency-dependent conductivity in ionically and electronically conducting amorphous solids 70/71(1994) 27
Essmann, R., see F. Altorfer 70/71(1994) 272

Farrington, G.C., see B. Dunn 70/71(1994) 3
Finch, A.A., see J.T.S. Irvine 70/71(1994) 445
Fitter, J., see R.E. Lechner 70/71(1994) 296
Follet-Houttemane, C., see F. Desanglois 70/71(1994) 229
Fontana, A., see P. Benassi 70/71(1994) 375
Fotiev, A.A., see E.Kh. Kurumchin 70/71(1994) 77
Fouletier, J., see E. Pernot 70/71(1994) 259
Franceschetti, D.R., Electrical network models for coupled charge transport 70/71(1994) 542
Francklin, A.J., A.V. Chadwick and J.W. Couves, Thermoelectric power studies of bismuth based oxides 70/71(1994) 215
Fray, D.J., see F.W.H. Dean 70/71(1994) 584

Fray, D.J., see R.V. Kumar 70/71(1994) 588
Frech, R. and G. Dharmasena, Cation effects on substitutional phase stabilization in sodium sulfate 70/71(1994) 191
Fujita, Y., see S. Ikeda 70/71(1994) 569
Funahashi, S., see H. Takahashi 70/71(1994) 390
Funke, K., see D. Wilmer 70/71(1994) 323

Garbarczyk, J., see M. Wasiucionek 70/71(1994) 346
Gilbert, B., see P. Berthet 70/71(1994) 476
Goldammer, S., A. Runge and H. Kahnt, New fluoride-conducting glass-ceramics in the system SiO_2–PbO–PbF_2 70/71(1994) 380
Goldner, M.A., see R.B. Goldner 70/71(1994) 613
Goldner, R.B., F.O. Arntz, K. Dickson, M.A. Goldner, T.E. Haas, T.Y. Liu, S. Slaven, G. Wei, K.K. Wong and P. Zerigian, Some lessons learned from research on a thin film electrochromic window 70/71(1994) 613
Gomyo, K., I. Sakaguchi, Y. Sin-ya, V.I. Lakshmanan, A. McLean and M. Iwase, Solid state sensor for silicon in molten metals by zirconia-based electrolyte 70/71(1994) 551
Granqvist, C.G., Electrochromic oxides: A unified view 70/71(1994) 678
Gruzalski, G.R., see J.B. Bates 70/71(1994) 619
Guessous, A., J. Sarradin, A. Pradel and M. Ribes, Electrochemical characterization of thin films of ionically and mixed conducting glasses 70/71(1994) 368
Guglielmi, J., see T. Scanu 70/71(1994) 109

Haas, T.E., see R.B. Goldner 70/71(1994) 613
Hagan, W.P., R.J. Latham, R.G. Linford and S.L. Vickers, Zinc polymer electrolytes in battery systems 70/71(1994) 666
Hanamoto, H., see A. Wakagi 70/71(1994) 601
Hashimoto, K., see J. Mizusaki 70/71(1994) 52
Hattori, T., H. Yugami and M. Ishigame, Luminescence from Cr^{3+} ions in mixed-cation β-alumina crystals 70/71(1994) 471
Hattori, T., S. Yashima, I. Kawaharada, Y. Chiba, M. Ishigame, N. Sata and S. Shin, Vacuum-ultraviolet reflectance in β-aluminas 70/71(1994) 493
Heitjans, P., see W. Küchler 70/71(1994) 434
Heitjans, P., see D. Clausen 70/71(1994) 482
Hempelmann, R., see D. Beyer 70/71(1994) 461
Hernán, L., J. Morales, L. Sánchez and J.L. Tirado, Electrochemical alkali metal intercalation into $(BiS)_{1.17}(NbS_2)_2$ 70/71(1994) 439
Hiki, Y., H. Takahashi and Y. Kogure, Study of the thermal transport properties of superionic conducting glasses 70/71(1994) 362
Hiki, Y., see H. Takahashi 70/71(1994) 390
Hikita, T., see J. Mizusaki 70/71(1994) 52
Hinokuma, K., see S. Takano 70/71(1994) 636
Hirano, K., see J. Mizusaki 70/71(1994) 52
Hong, Y.R., B.B. Tang, X.F. Wu and L.S. Li, A modified Caβ″–Al_2O_3 structure 70/71(1994) 121
Horita, T., see T. Kawada 70/71(1994) 65
Horsewell, A., see C. Clausen 70/71(1994) 59

Huang, K., Y. Xia, W. Wu, Q. Liu, W. Liu and H. Clauss, Investigations on commercially available MgO–PSZ electrolytes with Y_2O_3–FSZ coating for low oxygen determination in liquid steel 70/71(1994) 563
Huggins, R.A., H. Prinz, M. Wohlfahrt-Mehrens, L. Jörissen and W. Witschel, Proton insertion reactions in layered transition metal oxides 70/71(1994) 417
Hui, S., see W. Wu 70/71(1994) 606

Ikeda, S., K. Nomura, K. Ito and H. Einaga, Electrical conduction mechanism in solid electrolytes with zirconium phosphate framework 70/71(1994) 153
Ikeda, S., S. Kato, K. Nomura, K. Ito, H. Einaga, S. Saito and Y. Fujita, Carbon dioxide sensor using solid electrolytes with zirconium phosphate framework 70/71(1994) 569
Inagaki, M. and N. Iwashita, Chemical charging and electrochemical discharging through graphite intercalation compounds with sulfuric acid 70/71(1994) 425
Inaguma, Y., L. Chen, M. Itoh and T. Nakamura, Candidate compounds with perovskite structure for high lithium ionic conductivity 70/71(1994) 196
Inaguma, Y., see M. Itoh 70/71(1994) 203
Inaguma, Y., see Y.J. Shan 70/71(1994) 429
Ingram, M.D., see D. Wilmer 70/71(1994) 323
Ippommatsu, M., see J. Mizusaki 70/71(1994) 52
Irvine, J.T.S., S. Thiemann, G. Mather, A.A. Finch and H. Tukamoto, Electrochemical lithium insertion into magnesium titanate spinels 70/71(1994) 445
Ishigame, M., see T. Hattori 70/71(1994) 471
Ishigame, M., see T. Hattori 70/71(1994) 493
Ishihara, T., H. Matsuda, Y. Mizuhara and Y. Takita, Improved oxygen ion conductivity of $NdAlO_3$ perovskite-type oxide by doping with Ga 70/71(1994) 234
Ito, K., see S. Ikeda 70/71(1994) 153
Ito, K., see S. Ikeda 70/71(1994) 569
Itoh, M., see Y. Inaguma 70/71(1994) 196
Itoh, M., Y. Inaguma, W.-H. Jung, L. Chen and T. Nakamura, High lithium ion conductivity in the perovskite-type compounds $Ln_{1/2}Li_{1/2}TiO_3$(Ln=La,Pr,Nd,Sm) 70/71(1994) 203
Itoh, M., see Y.J. Shan 70/71(1994) 429
Iwahara, H., T. Yajima and H. Ushida, Effect of ionic radii of dopants on mixed ionic conduction ($H^+ + O^{2-}$) in $BaCeO_3$-based electrolytes 70/71(1994) 267
Iwahara, H., see T. Tsuji 70/71(1994) 291
Iwamoto, K., N. Aotani, K. Takada and S. Kondo, Rechargeable solid state battery with lithium conductive glass, Li_3PO_4–Li_2S–SiS_2 70/71(1994) 658
Iwase, M., see K. Gomyo 70/71(1994) 551
Iwashita, N., see M. Inagaki 70/71(1994) 425
Izumi, F., see R. Kanno 70/71(1994) 253
Izumi, H., see R. Kanno 70/71(1994) 253

Jacobs, H., see F. Altorfer 70/71(1994) 272
Jacobsen, T., see B. Zachau-Christiansen 70/71(1994) 401
Jacquet, M., see E. Caudron 70/71(1994) 629
Jakubowski, W., see F. Krok 70/71(1994) 211
Jakubowski, W., see M. Wasiucionek 70/71(1994) 346
Jetzer, W.L., see R.B. Beeken 70/71(1994) 176

Jørgensen, J.-E., see J.X.M. Zheng-Johansson 70/71(1994) 522
Jörissen, L., see R.A. Huggins 70/71(1994) 417
Julien, C., see G.A. Nazri 70/71(1994) 137
Jung, W.-H., see M. Itoh 70/71(1994) 203

Kahnt, H., see S. Goldammer 70/71(1994) 380
Kamitani, K., see J. Mizusaki 70/71(1994) 52
Kamiyama, T., see R. Kanno 70/71(1994) 253
Kanno, R., K. Ohno, H. Izumi, Y. Kawamoto, T. Kamiyama, H. Asano and F. Izumi, Neutron diffraction study of the high-fluoride-ion conductor, $PbSnF_4$, prepared under an HF atmosphere 70/71(1994) 253
Kantimm, T., see D. Wilmer 70/71(1994) 323
Kaps, Ch., D. Beyer and R. Schubert, Evidence for fast Na^+ transport in glassy $Na_4TaP_3O_{12}$ 70/71(1994) 385
Kaps, Ch., see D. Beyer 70/71(1994) 461
Kato, M., see J. Kuwano 70/71(1994) 332
Kato, M., see A. Wakagi 70/71(1994) 601
Kato, S., see S. Ikeda 70/71(1994) 569
Katz, B., see B. Dunn 70/71(1994) 3
Kawada, T., B.A. Van Hassel, T. Horita, N. Sakai, H. Yokokawa and M. Dokiya, Porous YSZ as a surface oxygen potential probe on polarized electrodes 70/71(1994) 65
Kawaharada, I., see T. Hattori 70/71(1994) 493
Kawaji, H. and T. Atake, Heat capacity measurement and thermodynamic study of Ag_8GeTe_6 70/71(1994) 518
Kawamoto, Y., see R. Kanno 70/71(1994) 253
Kendall, K.R., J.K. Thomas and H.-C. Zur Loye, Oxygen ion conductivity in a new class of layered bismuth oxides 70/71(1994) 221
Kendall, K.R., see J.K. Thomas 70/71(1994) 225
Kishimoto, A., see Y. Sone 70/71(1994) 316
Kishimoto, A., see S. Takano 70/71(1994) 636
Knödler, D., P. Pendzig and W. Dieterich, Transport and ac response in a model of glassy electrolytes 70/71(1994) 356
Kogure, Y., see Y. Hiki 70/71(1994) 362
Kondo, S., see K. Iwamoto 70/71(1994) 658
Kreuer, K.D., E. Schönherr and J. Maier, Proton and oxygen diffusion in $BaCeO_3$ based compounds: A combined thermal gravimetric analysis and conductivity study 70/71(1994) 278
Krok, F., W. Bogusz, W. Jakubowski, J.R. Dygas and D. Bangobango, Studies on preparation and electrical conductivity of BICOVOX 70/71(1994) 211
Krok, F., see J.R. Dygas 70/71(1994) 239
Küchler, W., P. Heitjans, A. Payer and R. Schöllhorn, ^7Li NMR relaxation by diffusion in hexagonal and cubic Li_xTiS_2 70/71(1994) 434
Kudo, T., see Y. Sone 70/71(1994) 316
Kudo, T., see S. Takano 70/71(1994) 636
Kumagai, N., M. Abe, N. Kumagai, K. Tanno and J.P. Pereira-Ramos, Kinetics of electrochemical insertion of lithium into WO 70/71(1994) 451
Kumagai, N., see N. Kumagai 70/71(1994) 451
Kumar, R.V. and D.J. Fray, Application of novel sensors in the measurement of very low oxygen potentials 70/71(1994) 588

Kurek, P., see J.R. Dygas 70/71(1994) 239
Kurek, P., see M. Wasiucionek 70/71(1994) 346
Kurumchin, E.Kh., G.K. Vdovin, A.A. Fotiev and O.N. Leonidova, A study of oxygen interaction with high-temperature superconducting materials by the isotopic exchange method 70/71(1994) 77
Kuwano, J., N. Sato, M. Kato and K. Takano, Ionic conductivity of $LiM_2(PO_4)_3$ (M=Ti, Zr, Hf) and related compositions 70/71(1994) 332
Kuwano, J., see A. Wakagi 70/71(1994) 601
Kuzmin, A., see F. Rocca 70/71(1994) 465

Lai, Z.H., see B. Zhu 70/71(1994) 125
Lakshmanan, V.I., see K. Gomyo 70/71(1994) 551
Lamberty, O., see D. Wilmer 70/71(1994) 323
Larring, Y. and T. Norby, Protons in $LaErO_3$ 70/71(1994) 305
Latham, R.J., see W.P. Hagan 70/71(1994) 666
Lechner, R.E., N.A. Dencher, J. Fitter and Th. Dippel, Two-dimensional proton diffusion on purple membrane 70/71(1994) 296
Leonidova, O.N., see E.Kh. Kurumchin 70/71(1994) 77
Lévy, M., see J.L. Souquet 70/71(1994) 337
Li, F., Z. Zhu and L. Li, A new way extending working-life of oxygen sensors in melt 70/71(1994) 555
Li, L., see F. Li 70/71(1994) 555
Li, L.S., see Y.R. Hong 70/71(1994) 121
Lichkova, N.V., see A.L. Despotuli 70/71(1994) 130
Linford, R.G., see W.P. Hagan 70/71(1994) 666
Ling, S., Chemistry of high-concentration point defects: a novel statistical thermodynamic approach applied to calcium-doped cerium oxides 70/71(1994) 686
Liu, T.Y., see R.B. Goldner 70/71(1994) 613
Liu, Q., see K. Huang 70/71(1994) 563
Liu, Q., see W. Wu 70/71(1994) 606
Liu, W., see K. Huang 70/71(1994) 563
Luck, C.F., see J.B. Bates 70/71(1994) 619

Machida, N., H. Tanaka, T. Shigematsu, N. Nakanishi and T. Minami, Preparation of silver ion conducting glasses containing two kinds of oxoanions and enhancement of conductivity of the glasses 70/71(1994) 328
Maier, J., Defect chemistry at interfaces 70/71(1994) 43
Maier, J., see K.D. Kreuer 70/71(1994) 278
Mairesse, G., see R.N. Vannier 70/71(1994) 248
Mairesse, G., see E. Pernot 70/71(1994) 259
Mariotto, G., see E. Cazzanelli 70/71(1994) 412
Mariotto, G., see F. Rocca 70/71(1994) 465
Mariotto, G., see F. Tietz 70/71(1994) 488
Maskell, W.C., see M. Benammar 70/71(1994) 559
Maskell, W.C., see R.C. Copcutt 70/71(1994) 578
Massot, M., see S. Souto 70/71(1994) 350
Mather, G., see J.T.S. Irvine 70/71(1994) 445
Matsuda, H., see T. Ishihara 70/71(1994) 234

Mavi, H.S., see G.A. Nazri 70/71(1994) 137
Mazanec, T.J., Prospects for ceramic electrochemical reactors in industry 70/71(1994) 11
McLean, A., see K. Gomyo 70/71(1994) 551
Mellander, B.-E., see B. Zhu 70/71(1994) 125
Mellander, B.-E., see B. Zhu 70/71(1994) 285
Michiue, Y. and M. Watanabe, Synthesis and structure of new sodium titanogallate, $Na_xTi_{2-x}Ga_{4+x}O_{10}$, containing one-dimensional channels 70/71(1994) 186
Min, J., see W. Zhao 70/71(1994) 144
Minami, T., see N. Machida 70/71(1994) 328
Minami, T., see M. Tatsumisago 70/71(1994) 394
Miura, N., S. Yao, Y. Shimizu and N. Yamazoe, New auxiliary sensing materials for solid electrolyte NO_2 sensors 70/71(1994) 572
Mizuhara, Y., see T. Ishihara 70/71(1994) 234
Mizusaki, J., H. Tagawa, T. Saito, T. Yamamura, K. Kamitani, K. Hirano, S. Ehara, T. Takagi, T. Hikita, M. Ippommatsu, S. Nakagawa and K. Hashimoto, Kinetic studies of the reaction at the nickel pattern electrode on YSZ in H_2–H_2O atmospheres 70/71(1994) 52
Morales, J., see L. Hernán 70/71(1994) 439
Müller, A., see D. Beyer 70/71(1994) 461

Nagai, M. and T. Nishino, Fabrication of Li_3PO_4–Al_2O_3 composites by an electrochemical technique 70/71(1994) 96
Nakagawa, S., see J. Mizusaki 70/71(1994) 52
Nakamura, O., see Y. Saito 70/71(1994) 180
Nakamura, T., see Y. Inaguma 70/71(1994) 196
Nakamura, T., see M. Itoh 70/71(1994) 203
Nakamura, T., see Y.J. Shan 70/71(1994) 429
Nakanishi, N., see N. Machida 70/71(1994) 328
Nasrallah, M.M., see C.C. Chen 70/71(1994) 101
Nazri, G.A., C. Julien and H.S. Mavi, Structure of Li_3X (X = N, P, As) superionic conductors: X-ray diffraction and FTIR studies 70/71(1994) 137
Nishino, T., see M. Nagai 70/71(1994) 96
Nomura, K., see S. Ikeda 70/71(1994) 153
Nomura, K., see S. Ikeda 70/71(1994) 569
Norby, T., see Y. Larring 70/71(1994) 305
Nowogrocki, G., see R.N. Vannier 70/71(1994) 248
Nowogrocki, G., see E. Pernot 70/71(1994) 259

Ohno, K., see R. Kanno 70/71(1994) 253

Panero, S., see F. Bonino 70/71(1994) 654
Passerini, S., see E. Cazzanelli 70/71(1994) 412
Pattanayak, J., see K.D. Becker 70/71(1994) 497
Payer, A., see W. Küchler 70/71(1994) 434
Pendzig, P., see D. Knödler 70/71(1994) 356
Pereira-Ramos, J.P., see N. Kumagai 70/71(1994) 451
Pernot, E., M. Anne, M. Bacmann, P. Strobel, J. Fouletier, R.N. Vannier, G. Mairesse, F. Abraham and G. Nowogrocki, Structure and conductivity of Cu and Ni-substituted $Bi_4V_2O_{11}$ compounds 70/71(1994) 259

Pikhitsa, P.V., see V.N. Bondarev 70/71(1994) 72
Piszora, P., see E. Wolska 70/71(1994) 537
Poinsignon, C., J.M. Amarilla and F. Tedjar, Electrochemical reduction of β-MnO_2, ramsdellite, γ- and ε-MnO_2 70/71(1994) 649
Potamianou, S.F. and K.A.Th. Thoma, A study of ion transport in zirconia through computer modeling 70/71(1994) 533
Poulsen, F.W., see E. Ahlgren 70/71(1994) 528
Pradel, A., see A. Guessous 70/71(1994) 368
Prinz, H., see R.A. Huggins 70/71(1994) 417
Purans, J., see F. Rocca 70/71(1994) 465

Rajendran, S., see S.P.S. Badwal 70/71(1994) 83
Reiselhuber, K., see J.R. Dygas 70/71(1994) 239
Ribes, M., see A. Guessous 70/71(1994) 368
Ritchie, A.G., High temperature electrochemical discharges of lithium-copper oxide cells using solid electrolytes 70/71(1994) 662
Rocca, F., A. Kuzmin, J. Purans and G. Mariotto, EXAFS study of Nd^{3+}-exchanged β″-alumina crystal 70/71(1994) 465
Rom, I. and W. Sitte, Composition dependence of chemical diffusion coefficient and ionic conductivity of α′- and α-Ag_2Te 70/71(1994) 147
Rulmont, A., see P. Berthet 70/71(1994) 476
Runge, A., see S. Goldammer 70/71(1994) 380

Saito, S., see S. Ikeda 70/71(1994) 569
Saito, T., see J. Mizusaki 70/71(1994) 52
Saito, T., see M. Tatsumisago 70/71(1994) 394
Saito, Y., O. Nakamura and Y. Yamamoto, Preparation of uniform $Na_4Zr_2Si_3O_{12}$ particles precipitated from alkoxide solutions 70/71(1994) 180
Sakaguchi, I., see K. Gomyo 70/71(1994) 551
Sakai, N., see T. Kawada 70/71(1994) 65
Sakuma, T., see H. Takahashi 70/71(1994) 390
Sanchez, J.-Y., see D. Benrabah 70/71(1994) 157
Sánchez, L., see L. Hernán 70/71(1994) 439
Sarradin, J., see A. Guessous 70/71(1994) 368
Sata, N., see T. Hattori 70/71(1994) 493
Sato, N., see J. Kuwano 70/71(1994) 332
Scanu, T., J. Guglielmi and Ph. Colomban, Ion exchange and hot corrosion of ceramic composites matrices: A vibrational and microstructural study 70/71(1994) 109
Schirmer, A., see D. Clausen 70/71(1994) 482
Schleich, D.M., Chimie douce: Low temperature techniques for synthesizing useful compounds 70/71(1994) 407
Schöllhorn, R., see W. Küchler 70/71(1994) 434
Schönherr, E., see K.D. Kreuer 70/71(1994) 278
Schubert, R., see Ch. Kaps 70/71(1994) 385
Schütt, H.J., Determination of the free ionic carrier concentration: A discussion of different methods 70/71(1994) 505
Servagent, S. and P. Colomban, Raman and dilatometric studies of $RbAgSO_4$ and $TlAgSO_4$ fast ion conductors 70/71(1994) 167

Shan, Y.J., L. Chen, Y. Inaguma, M. Shikano, M. Itoh and T. Nakamura, Lithium insertion into ceramic $SrVO_{3-\delta}$ 70/71(1994) 429
Shestakov, A.A., see A.L. Despotuli 70/71(1994) 130
Shigematsu, T., see N. Machida 70/71(1994) 328
Shikano, M., see Y.J. Shan 70/71(1994) 429
Shimizu, Y., see N. Miura 70/71(1994) 572
Shin, S., see T. Hattori 70/71(1994) 493
Siń-ya, Y., see K. Gomyo 70/71(1994) 551
Šipuš, Z., see A. Turković 70/71(1994) 642
Sitte, W., see I. Rom 70/71(1994) 147
Skaarup, S., see B. Zachau-Christiansen 70/71(1994) 401
Sköld, K., see J.X.M. Zheng-Johansson 70/71(1994) 522
Slaven, S., see R.B. Goldner 70/71(1994) 613
Smith, D.R., see R.B. Beeken 70/71(1994) 176
Šokčević, D., see A. Turković 70/71(1994) 642
Sone, Y., A. Kishimoto and T. Kudo, Amorphous tantalum oxide proton conductor derived from peroxo-polyacid and its application for EC device 70/71(1994) 316
Souquet, J.L., M. Lévy and M. Duclot, A single microscopic approach for ionic transport in glassy and polymer electrolytes 70/71(1994) 337
Souto, S., M. Massot and M. Balkanski, Raman scattering and medium range order in ternary borate glasses 70/71(1994) 350
Srirama Swaminathan, V., P. Balaya and C.S. Sunandana, Rapid synthesis and characterization of $NH_4Ag_4I_5$ 70/71(1994) 163
Stimming, U., see S. Aschrafi-Mahabadi 70/71(1994) 311
Strobel, P., see E. Pernot 70/71(1994) 259
Sunandana, C.S., see V. Srirama Swaminathan 70/71(1994) 163
Suzuki, T., see T. Tsuji 70/71(1994) 291
Szajda, W., see E. Wolska 70/71(1994) 537

Tagawa, H., see J. Mizusaki 70/71(1994) 52
Takada, K., see K. Iwamoto 70/71(1994) 658
Takagi, T., see J. Mizusaki 70/71(1994) 52
Takahashi, H., see Y. Hiki 70/71(1994) 362
Takahashi, H., Y. Hiki, T. Sakuma and S. Funahashi, The structure of AgI–CsI glass 70/71(1994) 390
Takano, K., see J. Kuwano 70/71(1994) 332
Takano, S., A. Kishimoto, K. Hinokuma and T. Kudo, Electrochromic thin films coated from peroxo-polymolybdotungstate solutions 70/71(1994) 636
Takita, Y., see T. Ishihara 70/71(1994) 234
Talaie, A. and G.G. Wallace, Resistometry: A new characterisation technique for conducting polymers 70/71(1994) 692
Tanaka, H., see N. Machida 70/71(1994) 328
Tang, B.B., see Y.R. Hong 70/71(1994) 121
Tang, S., see W. Wu 70/71(1994) 606
Tanno, K., see N. Kumagai 70/71(1994) 451
Tatsumisago, M., T. Saito and T. Minami, Low temperature behavior of frozen α-AgI in rapidly quenched glass matrices 70/71(1994) 394
Tedjar, F., see C. Poinsignon 70/71(1994) 649

Thiemann, S., see J.T.S. Irvine 70/71(1994) 445
Thoma, K.A.Th., see S.F. Potamianou 70/71(1994) 533
Thomas, J.K., see K.R. Kendall 70/71(1994) 221
Thomas, J.K., K.R. Kendall and H.-C. Zur Loye, Oxygen ion conductivity in $Ba-Bi_4Ti_3MO_{14.5}$ (M=Sc, In and Ga) 70/71(1994) 225
Tietz, F., E. Zanghellini and G. Mariotto, Optical spectroscopy of praseodymium-exchanged Na^+ β-alumina crystals 70/71(1994) 488
Tirado, J.L., see L. Hernán 70/71(1994) 439
Tsuji, T., T. Suzuki and H. Iwahara, Electrical conduction in $BaThO_3$ doped with Nd_2O_3 70/71(1994) 291
Tukamoto, H., see J.T.S. Irvine 70/71(1994) 445
Turković, A., D. Šokčević and Z. Šipuš, Electrical properties of thin films $Zn/(PEO)_4ZnCl_2/XO_y$, SnO_2 (X=Mn, Ti, Zn; $y=1, 2$) galvanic cells 70/71(1994) 642

Ushida, H., see H. Iwahara 70/71(1994) 267

Van Hassel, B.A., see T. Kawada 70/71(1994) 65
Vannier, R.N., G. Mairesse, F. Abraham and G. Nowogrocki, Double substitutions in $Bi_4V_2O_{11}$ 70/71(1994) 248
Vannier, R.N., see E. Pernot 70/71(1994) 259
Vdovin, G.K., see E.Kh. Kurumchin 70/71(1994) 77
Vickers, S.L., see W.P. Hagan 70/71(1994) 666

Wakagi, A., J. Kuwano, M. Kato and H. Hanamoto, Fast amperometric response of ambient temperature oxygen sensor based on $PbSnF_4$; Iron(II) phthalocyanine-based sensing electrodes containing carbon microbeads 70/71(1994) 601
Wallace, G.G., see A. Talaie 70/71(1994) 692
Wasiucionek, M., J. Garbarczyk, P. Kurek and W. Jakubowski, Electrical properties of glasses of the $Na_2O-V_2O_5-P_2O_5$ system 70/71(1994) 346
Watanabe, M., see Y. Michiue 70/71(1994) 186
Wei, G., see R.B. Goldner 70/71(1994) 613
West, K., see B. Zachau-Christiansen 70/71(1994) 401
Wilmer, D., T. Kantimm, O. Lamberty, K. Funke, M.D. Ingram and A. Bunde, Electrical and mechanical mixed alkali effect in a lithium/sodium borate glass at GHz frequencies 70/71(1994) 323
Winkler, B., see F. Altorfer 70/71(1994) 272
Wißmann, S., see K.D. Becker 70/71(1994) 497
Witschel, W., see R.A. Huggins 70/71(1994) 417
Wohlfahrt-Mehrens, M., see R.A. Huggins 70/71(1994) 417
Wolska, E., W. Szajda and P. Piszora, Mechanism of Al- for Fe-substitution during the α-(Fe, Al)OOH→ γ-$(Fe, Al)_2O_3$ transformation 70/71(1994) 537
Wong, K.K., see R.B. Goldner 70/71(1994) 613
Wu, X.F., see Y.R. Hong 70/71(1994) 121
Wu, W., see K. Huang 70/71(1994) 563

Xia, Y., see K. Huang 70/71(1994) 563
Xue, R., see W. Zhao 70/71(1994) 144

Yajima, T., see H. Iwahara 70/71(1994) 267

Yamamoto, Y., see Y. Saito 70/71(1994) 180
Yamamura, T., see J. Mizusaki 70/71(1994) 52
Yamazoe, N., see N. Miura 70/71(1994) 572
Yao, S., see N. Miura 70/71(1994) 572
Yashima, S., see T. Hattori 70/71(1994) 493
Yokokawa, H., see T. Kawada 70/71(1994) 65
Yu, X., see J.B. Bates 70/71(1994) 619
Yugami, H., see T. Hattori 70/71(1994) 471

Zachau-Christiansen, B., K. West, T. Jacobsen and S. Skaarup, Insertion of lithium into the manganese dioxides: pyrolusite and ramsdellite 70/71(1994) 401
Zanghellini, E., see F. Tietz 70/71(1994) 488
Zerigian, P., see R.B. Goldner 70/71(1994) 613
Zhao, W., L. Chen, R. Xue, J. Min and W. Cui, Ionic conductivity and luminescence of Eu^{3+}-doped $LiTi_2(PO_4)_3$ 70/71(1994) 144
Zheng, M. and X. Chen, Preparation and electrochemical characterization of $SrCeO_3$-based proton conductor 70/71(1994) 595
Zheng-Johansson, J.X.M., K. Sköld and J.-E. Jørgensen, Self diffusion study of copper halides using tracer methods 70/71(1994) 522
Zhu, B., Z.H. Lai and B.-E. Mellander, Structure and ionic conductivity of lithium sulphate–aluminum oxide ceramics 70/71(1994) 125
Zhu, B. and B.-E. Mellander, Proton conduction in nitrate-based oxides and related ceramics at intermediate temperatures 70/71(1994) 285
Zhu, Z., see F. Li 70/71(1994) 555
Zur Loye, H.-C., see K.R. Kendall 70/71(1994) 221
Zur Loye, H.-C., see J.K. Thomas 70/71(1994) 225

SOLID STATE IONICS

Subject Index

^{18}O-tracer diffusion, 278

^{7}Li Knight shift, 482

AB compounds, 673
Acceptor-doped $LaErO_3$, 305
Ac impedance method, 451
Activation energy and entropy, 522
Admittance spectroscopy, 505
Aerogels, 3
Alkoxide pyrolysis technique, 180
Alumina, 125
Aluminium substitution, 537
Amorphous film, 316
Amorphous material, 27
Amorphous silicon, 27
Amperometric, 578
Anionic conductors, 229
  Anode reaction mechanism, 52
Aqueous solution technique, 180
Atomic force microscopy, 3
Atomic mass, 522
Aurivillius phases, 221, 225
Auxiliary phase, 572

β″-alumina, 465
β-alumina, 471, 493
β-alumina crystals, 488
Bandstructure, 678
Band-to-band transition, 493
Battery, 429, 662, 666
BICUVOX, 215
BIMEVOX, 211, 248
Bismuth niobium sulfide, 439
Bismuth oxide, 215
Bis (trifluoromethylsulfonate)) methane, 157
Blast furnace hot metal, 551
Bonding energy, 522
Borate glasses, 323, 350, 394
Brillouin scattering, 323
Brownmillerite structure, 225

Calcium dopant, 686
Calcium nitrate, 27
Carbon anode, 20
Carbon dioxide gas sensor, 569
Catalysis, 43, 511
Cathodic polarization, 101
Cation distribution, 497
Celsian, 109
Ceramic electrochemical reactors, 11
Ceramic electrolyte, 239
Ceramic matrix composites (CMC's), 109
Cerium oxide, 686
Characterization, 163, 692
Charge transport, 542
Charging, 425
Chemical bond, 673
Chemical diffusion coefficient, 147
Chemical diffusion coefficient of lithium, 451
Chemical diffusion of water, 278
Chemical oxidation, 425
Chemical potential, 686
Chemical substitution, 176
Chimie douce, 407
Clathrate, 311
Cogeneration, 11
Coloration kinetics, 636
Combustion, 559
Commensurate–incommensurate structures, 259
Composite, 96, 394
Composite electrolytes, 43
Computer modelling, 533
Computer simulation, 511
Conducting polymer, 692
Conduction plane, 471
Conductivity, 43, 311
Conductor, 203
Copper halides, 522
Copper oxide, 662
Correlated barrier-hopping, 27
Co-substituted $Bi_4V_2O_{11}$, 211
Coulombic interactions, 686
Coulometric titration, 147
Counter-ion effects, 356
Current instability, 72
Cyclic voltammetry, 157

Debye behavior, 27
Decay of luminescence, 471
Defect chemistry, 43, 686
Defect exclusions, 686
Defects, 278
Dendrite growth, 72
Density, 595
Deposition technique, 96
Dielectric response, 137
Diffusion, 461
  correlated, 434
  two-dimensional, 434
Diffusion path, 522
Dilatation, 167
Discharge–ionization process, 72
Discharging, 425
Disorder, 167, 471

EDS, 59
Electrical conductivity, 291, 323
  mechanism, 153
  modelling, 305
Electrical networks, 542
Electrical properties, 83
Electrocatalysis, 11
Electrochemical quartz crystal microbalance, 692
Electrochromic window, 613
Electrochromism, 636, 678
Electrode interfaces, 654
Electrode kinetics, 65
Electrode reaction
Electrode resistance, 239
Electromagnetic steel, 551
Electron-beam lithography, 130
Electronic conduction, 563
Electronic materials, 642
Electronic structure, 493
Equilibrium constants, 305
Equivalent circuit, 239
Europium, 144
EXAFS, 465, 476
External electric field effect, 130

Fluoride, 601
Fluoride conduction, 380
Fractal aggregation, 72
Free carrier concentration, 505
Free volume, 196
Frozen electrolyte, 311
Fuel cell, 125, 267, 285

Ga dopant, 234
Gamma coincidence, 522
γ-iron oxide, 537
Glass, 27, 328, 337, 368, 375, 461
  sodium tantalo-phosphate, 385
Glass ceramics, 380
Glass formation, 385
Glass structure, 350, 390
Glass transition, 362
Glass transition temperature, 337
Glassy electrolyte, 356, 658
Glycolate decomposition, 407
Grain boundary resistance, 239
Graphite, 658
Graphite intercalation compounds, 425

H_2–H_2O atmospheres, 52
Heat capacity, 518
High-temperature, 497
H^- jump diffusion, 272
Hopping rate, 153
Hydration water, 296
Hydrogen in steel, 584
Hydrogen probe, 595
Hydrogen sensor, 584

Impedance spectroscopy, 101, 239, 346, 619
Infrared spectroscopy, 137
Insertion, 649
Insertion reaction, 417
In-situ determination, 551
Interfaces, 43
Intergrowth structures, 225
Intrinsic vacancies, 225
Ion exchange
  corrosion, 109
Ionic conduction
  mechanism, 253
Ionic conductivity, 96, 144, 147, 157, 176, 191, 394, 511, 629
  fluoride, 253
  hydrogen, 272
  lithium, 196, 332
  oxide, 291
  oxygen, 211, 215, 221, 225, 234, 239, 259
  proton, 267, 278, 285, 291, 311, 316
  sodium, 186, 476
Ionic conductor, 83, 328
Ionic radius, 267, 522
Ionic transport, 356
Ion intercalation, 678
Ionized cluster beam method for nickel films on YSZ, 52
IR, 109
Iridium, 316
Iron hydroxide oxide, 537
Irreversibility, 649
IR specroscopy, 476
Isotope effect, 311
Isotopic exchange, 77

Kinetics of lithium insertion, 451

(La, SR)-manganite, 59
Lanthanide, 203

Lanthanum lithium titanates, 196
LAS, 109
Layered oxide, 221
Lead-tin fluoride, 253
Ligand-field calculations, 488
Light scattering, 375
Lithium, 203, 439, 662
Lithium anode, 20
Lithium battery, 619, 654, 658
Lithium compounds, 137
Lithium concentration, 196
Lithium electrolyte, 629
Lithium insertion, 401, 429, 445
Lithium intercalation, 412
Lithium salts, 157, 332
Lithium sulphate, 125
Lithium titanium phosphate, 144
Low oxygen, 563
Low oxygen potentials, 588
Low temperature synthesis, 407
Luminescence, 144, 471

Manganese dioxide, 401, 649
Manganese oxide cathode, 20
Mechanism of ion transport, 673
Medium range order, 350
Melt-quenching, 163
Membrane reactors, 11
Mesoscopic systems, 43
Metal oxides, 678
Metal production, 551
MgO–PsZ electrolyte, 606
Microbattery, 368
Microsensor, 368
Microstructure, 83, 109
Mist pyrolysis technique, 180
Mixed alkali effect, 323
Mixed anion effect, 328
Mixed conductor, 147, 346
Mobilities, 305
Monte Carlo simulation, 356
Mössbauer spectroscopy, 497
Multiple coatings, 101
Multivalent cationic conductor, 153

Na^+ conductor, 572
Nanostructure, 83
NASICON, 332, 572
NASICON-type structure, 153
NEMCA, 11
Neutron diffraction, 253, 390
Neutron scattering, 461
Nickel electrode, 417
Nickel pattern electrode on YSZ by photolithography, 52
Nitrate, 285
Nitric oxide, 578
NMR, 356

NO_2 sensor, 572
One-dimensional channel, 186
Optical properties, 488, 678
(Opto-) micro-ionics, 642
Order–disorder transitions, 221
Orientational disorder, 191
Oxide anionic conductivity, 248
Oxygen, 77, 559, 578
Oxygen diffusion, 278
Oxygen flux, 11
Oxygen measurement, 588
Oxygen sensor, 555, 601, 606

P.I.G.E., 629
Perovskite, 203, 234, 278, 305, 429
  structure, 196
Perovskite-type oxides, 267
Peroxo polyacid, 316
Peroxo-polymolybdotungstate, 636
Phase stabilization, 191
Phase transformations, 537
Phase transition, 167, 332, 518
Phonon transport, 362
Phosphate glasses, 476
Phospho-vanadate glasses, 346
Polarization, 555
Polymer electrolyte, 20, 157, 654
Polymeric precursors, 101
Polymers, 337
Porous oxygen sensor, 65
Porous substrates, 101
Positron annihilation
Potassium nitrate, 27
Potentiometric measurements, 584
Potentiometric sensor, 572
Powder processing, 83
Proton, 109, 305
Proton conduction mechanism, 278
Proton conductivity, 3, 125, 267, 278, 291
Proton insertion, 417
Proton (surface) diffusion, 296
Proton transference number, 595
Prussian blue, 316
Pseudopotential study, 673
Purple membrane, 296
Pyrolusite, 401

Quasielastic neutron scattering, 272

R.B.S., 629
Radioactive tracer, 522
Raman, 109, 167
  scattering, 350, 412
  spectroscopy, 191
Ramsdellite, 401
Rapid synthesis, 163
Rechargeable batteries, 20

Recharging current, 555
Reduction mechanism, 649
Reflection spectra, 493
Relaxation, 434
Reproducibility, 563
Resistometry, 692
Room temperature, 601

Seebeck coefficient, 528
Self diffusion, 522
Sensing electrode, 601
Sensors, 43, 559, 578, 588
Silicon sensor, 551
Silver iodide, 394
Silver ion, 328
Silver sulphates, 167
Sodium, 109, 439
Sodium sulfate, 191
Sodium titanogallate, 186
Sodium zirconium silicate, 180
SOFC, 59
Sol–gel synthesis, 3
Sol–gel technique, 180
Solid acid polyhydrate, 311
Solid electrolyte, 72, 121, 130, 285, 572, 642, 662
Solid oxide fuel cells, 101
Solid solutions, 229, 537
Solid state ECD, 316
Space-charge, 43
  relaxation, 505
Spin coating, 101, 636
Spinel, 445, 497
Spin-lattice, 434
Spin-lattice relaxation, 482
Stability, 595
Static dielectric constant, 311
Statistical thermodynamics, 686
Strontium cerate, 595
Strontium vanadate, 429
Structure, 121
Substitution, 332
Sulfuric acid, 425
Sulphur dioxide, 578
Superconductivity, 77
Superionic conductor, 163, 471, 493, 522
Superionic glass, 394
Superstructure, 537
Surface oxygen potential, 65
Synchrotron radiation, 493

Tantalum, 316
TEM, 59
Thermal conductivity, 362
Thermal diffusivity, 362
Thermocell, 528
Thermodynamic functions, 518
Thermoelectric power, 215
Thin film, 101, 368, 613, 619, 629
  solid state galvanic cells, 642
Three-phase zirconia, 551
Time-resolved
  luminescence, 471
  spectroscopy, 488
Titanate, 445
Titanium disulfide, 658
Transference number of proton, 267
Transport, 385
Transported entropy, 528
Triple phase boundary
  Ga/nickel/YSZ, 52
Tungsten, 316

Vacancy
  concentration, 196
  defects, 176
  ordering, 537
Vacuum-ultraviolet, 493
Vanadium oxide, 3
Viscosity, 101
Vitreous phase, 229
VTF equation, 337

WO_3 formed by heat-treatment of H_2WO_3, 451
Working-life, 555
Wurtzite structure, 522

Yttrium-stabilized zirconia, 59, 65, 528

Zeolites, 511
Zinc blende structure, 522
Zinc polymer electrolytes, 666
Zirconia, 83, 559, 578
Zirconium phosphate framework, 569